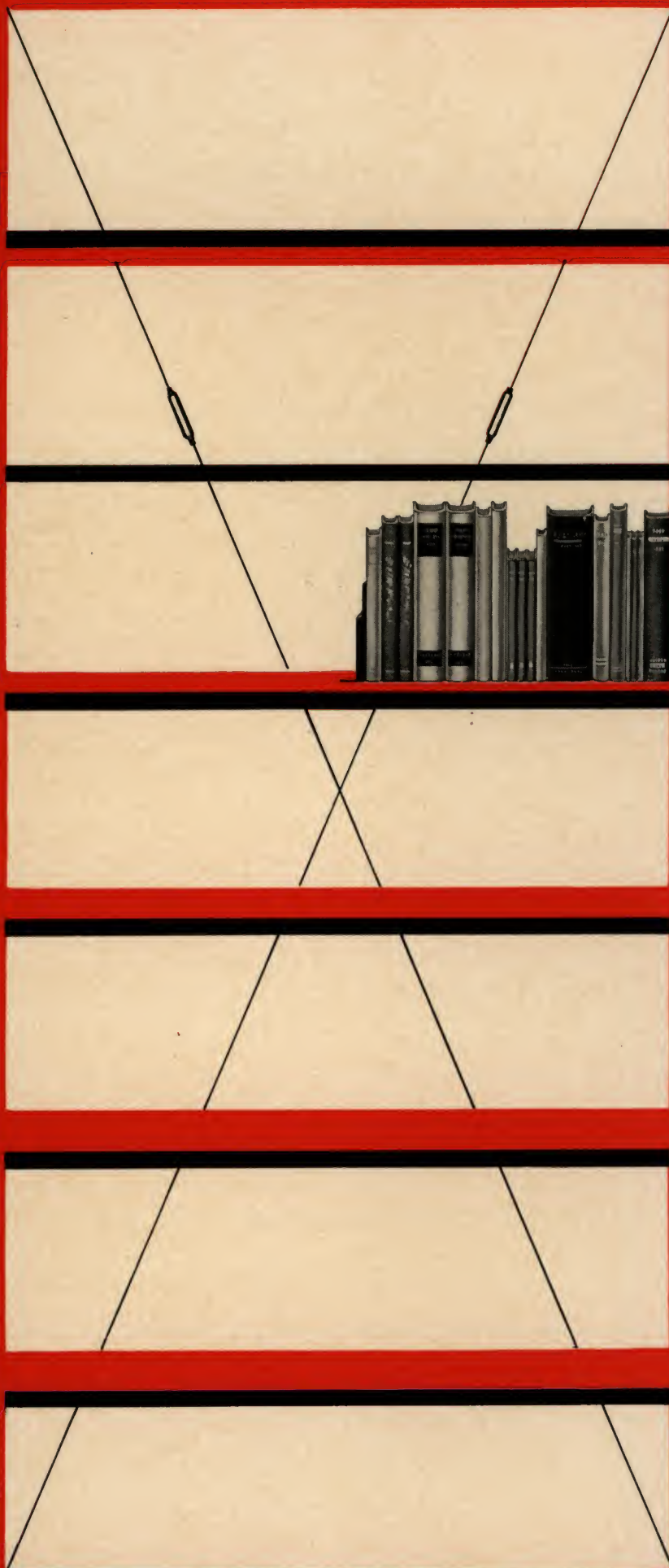


Catalog No. AR-26



Hamilton
**STEEL
BOOKSTACKS**



HAMILTON MANUFACTURING COMPANY • Two Rivers, Wisconsin

FEATURES

PROTECTION — Protecting books is the first consideration in the design of Hamilton Bookstacks. Corners and edges are well rounded and surfaces covered with frictionless finish. Special steel construction permits free air circulation to prevent dry-rot and mildew.

APPEARANCE — There is no sacrifice to appearance in Hamilton Bookstacks. Streamlined wood or steel finished ends are available in a variety of colors to match or harmonize with surrounding decorations. Hamilton finishes are abrasion resistant and easy to keep clean.



THE ADVANCED APPROACH TO IMPROVED LIBRARY

COMPLETE SERVICE — Hamilton offers complete planning service for every bookstack requirement . . . single and multi-tier stacks, carrells, partitions, reference and divider shelves, stair equipment, elevator enclosures, book lifts and conveyors.

CONSTRUCTION — With facilities to fabricate in both wood and steel, Hamilton offers you the option of all-steel or steel-wood construction. Vertical adjustments on $\frac{1}{2}$ " centers and a choice of shelf depths permit numerous variations.

ACCESSORIES — Well planned accessories augment the efficiency of Hamilton bookstacks. Book supports, label holders, card frames, range indicators and subject finders simplify the librarian's job.

EASY ASSEMBLY — The parts for Hamilton bookstacks are accurately stamped for close-fitting easy assembly and simple adjustment. Most assemblies require only a wrench and screw driver to install. Unit system design permits individual arrangement without custom cost.

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HAMILTON MANUFACTURING COMPANY

TWO RIVERS, WISCONSIN





FACTS AT A GLANCE

This catalog is designed to give you quick, pertinent facts about Hamilton-Standard, Continuous Upright and Compo Stacks. Each design is conveniently arranged in its own section, with a special section devoted to accessories common to all models.

When referring to catalog items, particularly stack compartments, be sure to distinguish between INITIAL and ADDITIONAL compartments. They are identified by separate catalog numbers. Also, give specific shelf sizes and list by catalog number, any accessories you may desire.

FACILITIES AND SERVICE

Hamilton equipment protects the library's most valuable asset, books. It is designed for the utmost convenience of the personnel. And this equipment plus Hamilton planning provides maximum space utilization. In combination these factors assure another essential library function — service to the library patron.





COLOR

TO BEAUTIFY YOUR LIBRARY

Cold, severe surroundings are out of date in the modern library. Brighten it with new, refreshing colors that give it exciting beauty and appeal.

Hamilton finishes are in unusual new colors developed especially for library equipment. They give you a wide choice of modern color combinations that are new and different yet entirely in keeping with the dignity of library decor. The colors harmonize beautifully in many decorative scheme combinations.

Hamilton colors have one thing in common, they harmonize with existing color schemes. All have that natural look — distinct color casts created to enrich surrounding areas.

While these finishes are easy to combine with the colors on walls, floors, blinds, etc., it is helpful to keep a few decorators' suggestions in mind when planning a new color scheme for your library.

MAY WE SUGGEST

Drapery, floor coverings, wall and trim that blend with new Hamilton equipment colors. These combinations are suggested only as harmonious and attractive associations. New Hamilton finishes lend themselves to a limitless variety of other color schemes.

COLOR depends upon exposure and existing natural light. If the room has north or east exposure rely on warm colors to soften the cool light. Yellows, warm tans, peach, pale pink tints are best for these exposures. For south and west exposure, use cool colors, such as light greens or blues in various tints.

FLOORS look best if the colors are kept in a harmonious tone plane. Plain colors, marbled patterns or jasper effects are recommended for best blending qualities.

DRAPERY should be patterned for variety, since most of the associated colors will be plain. Venetian blinds provide maximum light, with a minimum of glare, and their tapes are available in a variety of colors that add a distinctive touch to your decorating plan.

FEATURES

- ▶ 1. Shelves adjustable vertically on 1/2" centers.
- ▶ 2. Laterally adjustable shelves add to usable depth.
- ▶ 3. 19/32" thick, Dutch bend shelf flange for added reinforcement and greater book capacities.
- ▶ 4. Shelves adjustable according to position for easier reading — level center shelves — upward sloping lower shelves — downward sloping upper shelves.
- ▶ 5. Every fifth slot in upright is key shaped for easy shelf leveling.
- ▶ 6. Shelf brackets with safety catches extend below and above shelf to support large volumes.
- ▶ 7. Designed in the modern manner. Well-rounded edges improve appearance and add to safety.

MODIFIED BRACKET TYPE DESIGN

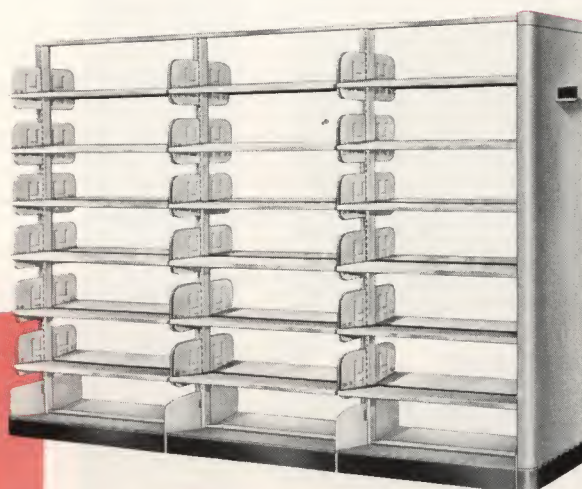
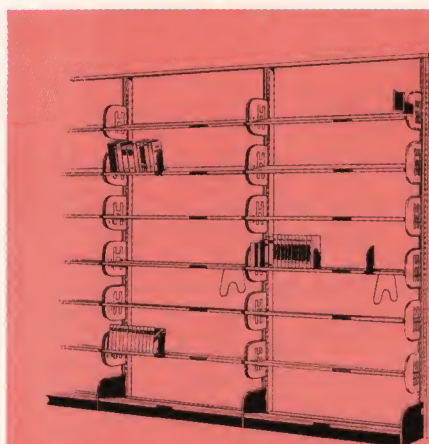
PROVED RECORD OF PERFORMANCE — Hamilton-Standard bookstacks enjoy a proved record of performance. Hundreds of existing installations and the increasing demand for modified bracket type shelving attest to its popularity.

ECONOMICAL IN INITIAL COST AND MAINTENANCE — Standard unit construction on a production line basis plus add-a-compartment range development give you maximum return in storage space for your investment. Sturdy, steel construction throughout assures a lifetime of trouble-free service.

ADAPTABLE TO EVERY REQUIREMENT — Hamilton-Standard Bookstacks represent the imagineering and suggestions of a composite representation of librarians. Their ideas brought to reality by Hamilton engineering and research have created stack facilities that can be adapted to any kind of material in all types of libraries.

FREE STANDING — Another factor you will like about Hamilton-Standard Bookstacks is the simplicity of installation. No tedious planning or involved mechanics are required. Merely assemble the accurately fabricated parts and move into position. Whether you have one compartment or a range of multiple compartments, the assembly forms a free-standing installation.

Single-Faced Hamilton-Standard Range showing open end, subject finder, shelf label holders, plate and wire book supports.

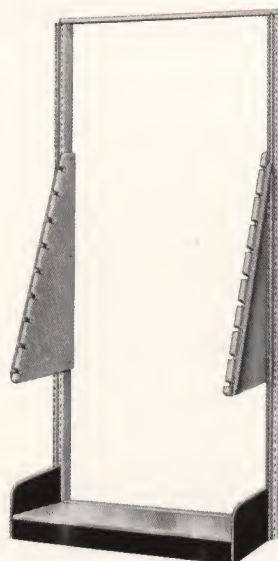
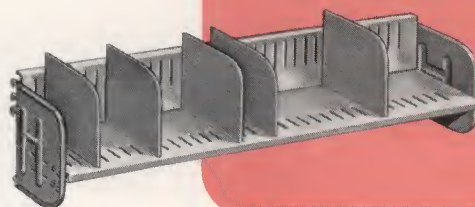


Double-Faced Hamilton-Standard Range — 3 compartments — single tier height — finished right end with V-shaped indicator — open left end.

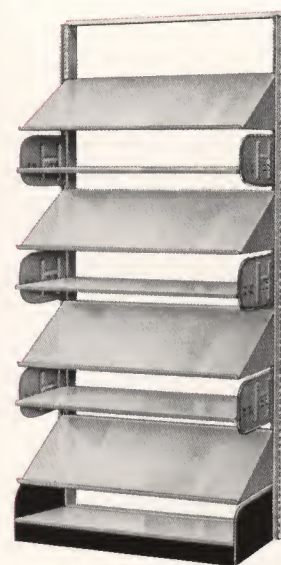


DIVIDER SHELVES

For pamphlets, magazines, micro-film and a variety of other items. Interchangeable with regular shelves. Slots for dividers at 1" intervals entire length of shelf. Individual shelves or entire compartments available in 8", 10" and 12" depths. Lock type dividers supplied for special requirements.



R-6519



R-6525

Newspaper Unit No. R-6519 is a single face, one tier unit with accommodations for displaying nine newspaper holders. More units can easily be added. For additional units specify No. R-6520. Extra inserts only, No. R-6523, available.

Magazine Unit No. R-6525 single face unit. Has four adjustable sloping shelves for displaying current issues of magazines and four adjustable 12" deep regular shelves as well as one 10" fixed base shelf for back issues. For additional units specify No. R-6526. Extra sloping shelves, No. R-6529, available.



STANDARD SHELVES

Dutch bend construction, as shown in sketch, give Hamilton shelves extra strength without bulk or weight. They are adjustable in $\frac{1}{2}$ " vertical steps and one inch laterally. Slope is also adjustable to facilitate reading titles. Each shelf has nominally 3 feet of book capacity. No. R-6011, 8" deep; No. R-6012, 10" deep; No. R-6013, 12" deep.



Finished Ends

Attached to the ends of Hamilton stack ranges they enhance appearance and protect books on the aisle. Available in beautifully grained maple or steel. Available in 7'3", 5'3" and 3'6" heights.

7'3" Ht.		5'3" Ht.		3'6" Ht.	
Wood	Steel	Wood	Steel	Wood	Steel
R-6515	R-6017	R-6570	R-6574	R-6578	R-6582
Double faced for 8" and 10" shelves — Width 20"					
R-6516	R-6017-1	R-6571	R-6575	R-6579	R-6583
Double faced for 12" shelves — Width 24"					
R-6517	R-6018	R-6572	R-6576	R-6580	R-6584
Single faced for 8" and 10" shelves — Width 11"					
R-6518	R-6018-1	R-6573	R-6577	R-6581	R-6585
Single faced for 12" shelves — Width 13"					



WOOD



STEEL

GENERAL CONSTRUCTION

All parts of Hamilton-Standard stacks are made of high grade cold rolled steel. Standard bracket type stacks are 7'3" high and 36" wide from center to center of uprights. Other heights, such as the popular 3'6" counter height or the 5'3" stacks for children's libraries are also available. Special heights to meet your particular requirements and specifications can be readily supplied.

Each 7'3" compartment is regularly supplied with one fixed and six adjustable shelves; 5'3" units are equipped with one fixed and four adjustable shelves, the 3'6" with one fixed, two adjustable shelves and linoleum cover plate. Additional shelves are available and may be inserted should your situation require them. Bottom shelves 10" deep, are regularly supplied with 8" and 10" compartments and 12" bottom shelves with 12" compartments. Steel finished back panels are available for all units. A wide range of baked-on hammered finishes is available. The selection of colors in Hamilton hammered finish covers such a wide range that space does not permit listing all of them. See your Hamilton dealer for complete color information.

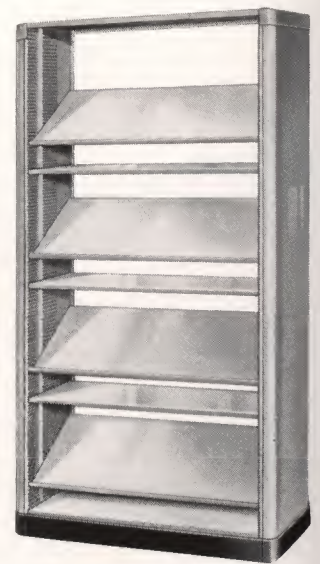
Kick plates and bottom support brackets are finished with a baked-on alkali resistant black enamel.

SPECIFICATIONS

7'3" Ht.		5'3" Ht.		3'6" Ht.	
Initial	Add'l	Initial	Add'l	Initial	Add'l
COMPLETE DOUBLE FACED COMPARTMENT					
R-6200	R-6203	R-6272	R-6275	R-6284	R-6287
		8" Shelves			
R-6201	R-6204	R-6273	R-6276	R-6285	R-6288
		10" Shelves			
R-6202	R-6205	R-6274	R-6277	R-6286	R-6289
		12" Shelves			
COMPLETE SINGLE FACED COMPARTMENT					
R-6206	R-6209	R-6278	R-6281	R-6290	R-6293
		8" Shelves			
R-6207	R-6210	R-6279	R-6282	R-6291	R-6294
		10" Shelves			
R-6208	R-6211	R-6280	R-6283	R-6292	R-6295
		12" Shelves			

FEATURES

- ▶ Vertical shelf adjustment on $\frac{1}{2}$ " centers for maximum space utility.
- ▶ Shelf size interchangeability — 8", 10" and 12" shelves are interchangeable in compartments anywhere in the stack.
- ▶ Rounded corners on uprights and closed ends improve appearance and reduce the injury hazard to books, clothes and users.
- ▶ Every fourth slot has shelf location hole to facilitate shelf leveling at installation and subsequent adjustments.
- ▶ Sleek, trim look reinforced by full-length, Dutch-bend flanges at front and rear of shelves.
- ▶ Modern, hammered, baked-on finish in wide choice of colors on all surfaces except bases.
- ▶ Alkali-resistant, black enamel base finish.



Magazine Unit

This unit serves a dual purpose in the modern library. It is designed for displaying magazines and at the same time provides space for storing extra copies. There are four adjustable sloping shelves, 12" deep for display and three adjustable horizontal shelves, 12" deep for storage, also one fixed 10" base shelf. Single faced initial unit R-6527. Additional unit R-6528.



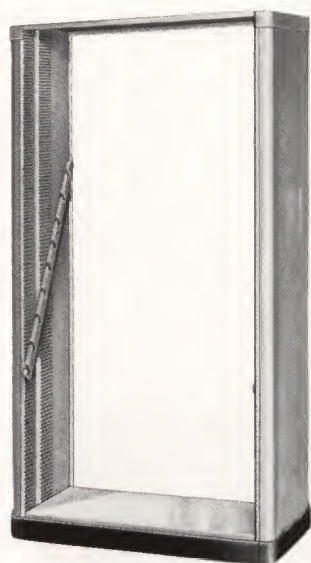
Counter Height Stack

This 42" high counter stack is a versatile adjunct to regular stacks. It turns odd nooks and crannies into useable storage space and provides additional shelving where full-height stacks are not desirable. Equipped with scratch resistant linoleum working surface and three adjustable shelves. Additional shelves No. R-6529 are available separately.

Double Faced Unit 3'6" High			Single Faced Unit 3'6" High		
	Initial	Add'l		Initial	Add'l
With 8" Shelves	R-6546	R-6549	With 8" Shelves	R-6552	R-6555
With 10" Shelves	R-6547	R-6550	With 10" Shelves	R-6553	R-6556
With 12" Shelves	R-6548	R-6551	With 12" Shelves	R-6554	R-6557

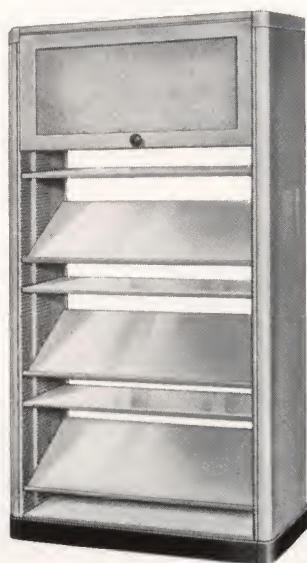
SPECIFICATIONS

7'3" Ht.		5'3" Ht.		3'6" Ht.	
Initial	Add'l	Initial	Add'l	Initial	Add'l
Double Faced Compartments					
R-6212	R-6215	R-6586	R-6589	R-6546	R-6549
8" shelves					
R-6213	R-6216	R-6587	R-6590	R-6547	R-6550
10" shelves					
R-6214	R-6217	R-6588	R-6591	R-6548	R-6551
12" shelves					
Single Faced Compartments					
R-6218	R-6221	R-6592	R-6595	R-6552	R-6555
8" shelves					
R-6219	R-6222	R-6593	R-6596	R-6553	R-6556
10" shelves					
R-6220	R-6223	R-6594	R-6597	R-6554	R-6557
12" shelves					



Newspaper Unit

A matching unit in Continuous Upright Design for displaying newspapers. The compartment is 10" deep and is equipped with a rack that accommodates nine newspaper holders. The newspaper holders may be removed and the unit converted to book storage by inserting shelves. Initial single faced unit R-6521, additional unit R-6522. Newspaper inserts only R-6524.



Cupboard Unit

Any compartment of Continuous Upright Stacks may be converted into a cupboard unit by removing the book shelves and inserting the unit elements. This unit has three 12" adjustable sloping shelves and two 12" adjustable horizontal shelves. Upper section is cupboard space. Corkboard panel for bulletins may be inserted in cupboard door. Cupboard unit R-6530.

This type of design lends itself to every book-stack requirement in the modern library. The shelf adjustment on $\frac{1}{2}$ " centers permits easy arranging of shelves to accommodate all sizes of books. Closed steel ends are standard equipment. They conceal uprights, book supports and books, providing a neat, closed-in aisle. Wood ends of beautifully figured maple are available in place of steel. Cover plates, too, are standard equipment, reinforcing the assembly and protecting books from dust. Steel finish back panels are available for all units.

Continuous Upright Stacks come in standard heights of 7'3" with seven adjustable shelves in each compartment; 5'3" with five adjustable shelves and the 3'6" height described on opposite page. Extra shelves are available and may be added as required. Compartments are 36" wide from center to center of uprights. All parts are accurately machined and interchangeable in the assembly of single or multi-tier stacks.

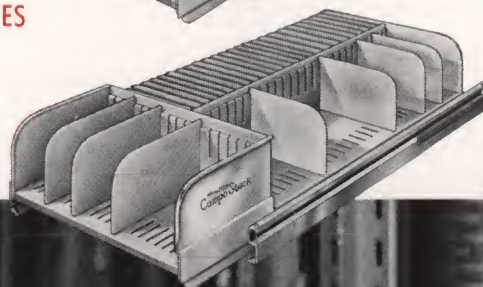
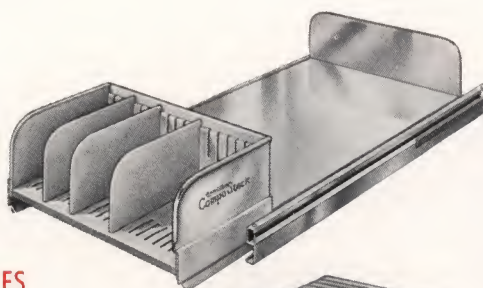


At the left is an actual installation of Hamilton Continuous Upright stacks. Note the smooth surfaces and well rounded corners that protect books and people. Here is a fine example of the slotted ends which permit shelf adjustment to fit any size books.

Every type of filing requirement can be met by moving dividers. Books, magazines, pamphlets, micro-film, newspapers, records, correspondence and legal file folders can be filed in vertical or horizontal position.

DIVIDER SHELVES

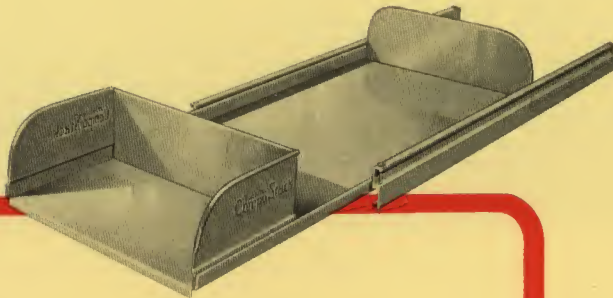
Divider slots at 1" intervals in both front compartment and balance of shelf bring a new concept to Compo filing.



Compo sliding shelves with suspensions are available in the following sizes.

SPECIFICATIONS

NO.	SIZE	NO.	SIZE
R-6236	18" x 36"	R-6254	18" x 42"
R-6237	22" x 36"	R-6255	22" x 42"
R-6238	26" x 36"	R-6256	26" x 42"



Without adding a square inch of floor space Hamilton Compo Stacks provide twice as much storage capacity as conventional shelving. Engineered on the sliding shelf principle, books may be stored on both sides and the front compartment of the shelf.

When the shelf is pulled out the books are more easily accessible than on a straight shelf and when not in use the Compo shelf with its load of books slides into the stack, out of the way.

The composite illustration, of a double faced range, at right, shows the features and equipment Compo Stacks offer. Looking left to right is a compartment of locked doors for safeguarding valuable items. Next are three open compartments showing both open and closed end construction. Cover plates protect contents from dust and dirt. Doors, closed ends and cover plates are optional.

**HAMILTON
STEEL
COMPO STACK**

SPECIFICATIONS

Double Faced Ranges 7'3" High

	Initial	Add'l
18" x 36" Compartment	R-6224	R-6227
22" x 36" "	R-6225	R-6228
26" x 36" "	R-6226	R-6229
18" x 42" "	R-6242	R-6245
22" x 42" "	R-6243	R-6246
26" x 42" "	R-6244	R-6247

Single Faced Ranges 7'3" High

18" x 36" Compartment	R-6230	R-6233
22" x 36" "	R-6231	R-6234
26" x 36" "	R-6232	R-6235
18" x 42" "	R-6248	R-6251
22" x 42" "	R-6249	R-6252
26" x 42" "	R-6250	R-6253

ACCESSORIES

Closed end, single faced, 36" R-6121; 42" R-6122
Closed end, double faced, 36" R-6124; 42" R-6125

Cover plate for 18" x 36" unit R-6080
Cover plate for 22" x 36" unit R-6081
Cover plate for 26" x 36" unit R-6082
Cover plate for 18" x 42" unit R-6127
Cover plate for 22" x 42" unit R-6128
Cover plate for 26" x 42" unit R-6129

DOORS AND DOOR FRAMES

18" stack R-6239, 22" stack R-6240, 26" stack R-6241



BEFORE

Before installing Compo Stacks the public library, Manitowoc, Wisconsin, at right, had seven rows of conventional wooden stacks behind main desk. These provided 1,307 lineal feet of shelving.



AFTER

After installing Compo Stacks, at left, the area behind the main desk accommodated 330 sliding shelves or 2,856 lineal feet of storage space plus steel uprights for 118 additional shelves.



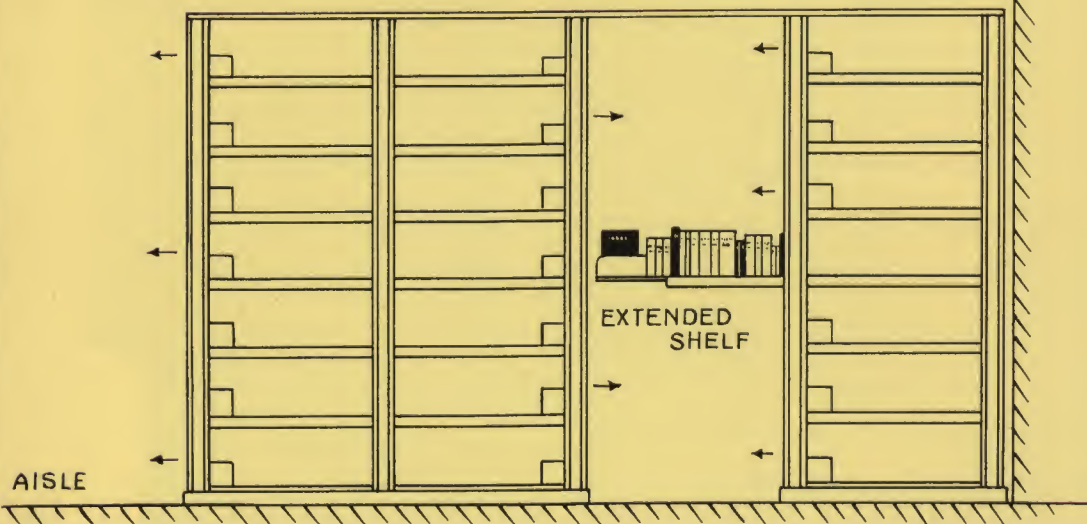
Note how easy it is to find books and how accessible they are from both sides and the front of the Compo shelf. These features plus concentrated storage facilities make Compo Stacks so popular in crowded libraries.

FEATURES

- ▶ Books are easily accessible from front and sides of shelves as well as open range ends. A wide range of vertical shelf adjustments accommodates many different book sizes.
- ▶ The compactness of Compo Stacks reduces travel to and from shelves — cuts down servicing time.
- ▶ Rare books and special collections may be safeguarded. Individual shelves or entire compartments can be equipped with locks.
- ▶ Compo Stacks have been carefully designed and thoroughly tested to meet all conditions of use — in the library or for general storage.
- ▶ Fully loaded shelves slide easily and noiselessly on nylon-tired ball bearing rollers.
- ▶ Hamilton Compo Stacks at least double the content capacity of any available space as compared to other general stack arrangements.
- ▶ Compo Stacks make storage capacity more flexible. Volumes of different sizes can be accommodated in any compartment.

COMPO STACKS IN ACTION

The unique operation of Compo Stacks is graphically illustrated by this end view of adjacent double-faced and single-faced tiers. Note how aisle width is determined by the length of the pull-out shelf. No more space is needed because books are readily accessible from both sides of the shelf as well as from the open ends. You can readily realize the tremendous increase in lineal feet of book capacity in a concentrated area.



Compo Stacks are being adapted to more diversified filing uses everyday.

LIBRARIES: Municipal and school libraries use Compo for a wide variety of situations. Compo Stacks have ended book and materials handling problems in practically every kind of school. Books, periodicals, pamphlets, micro-film, newspapers, records and supplies are all accommodated with equal ease.

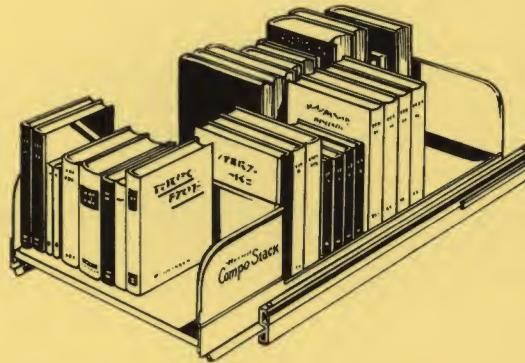
INDUSTRY: Day after day new uses for Compo filing are being discovered. Compact libraries, doubled capacity correspondence files, records, magazines, trade publications, phonograph records, small parts inventory items are finding their way on to Compo shelves.

HOSPITALS: Administrators are enthusiastic about the concentrated space provided by Compo Stack. They are finding all types of uses for Compo — books, records, charts, case histories, even drug supplies and dental instruments.



Compo Book Arrangement

This is the normal arrangement of standard size books on a Compo extending shelf. Odd-size volumes may be placed flat or any convenient way that ingenuity may devise.



More Capacity with Compo Stack

The two floor plans at the right demonstrate the increase in lineal book capacity provided by Compo Stacks.

Figure "A" shows a room 28'-4" x 42'-4" planned to give maximum capacity using conventional stack equipment. Allowing necessary aisle space, only 2793 lineal feet are provided. Figure "B", in the same floor area, with wider aisles, but equipped with Compo Stacks increases lineal feet of book capacity to 5796.

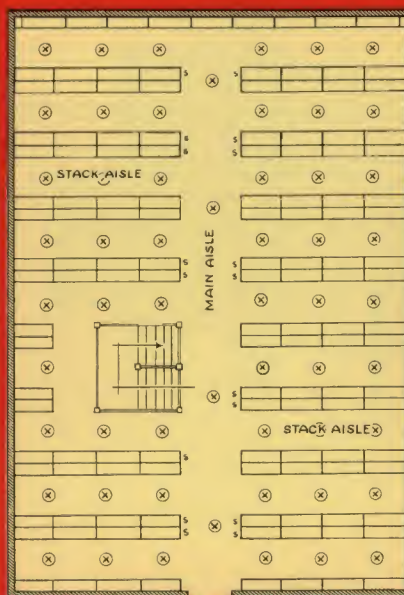


Figure A

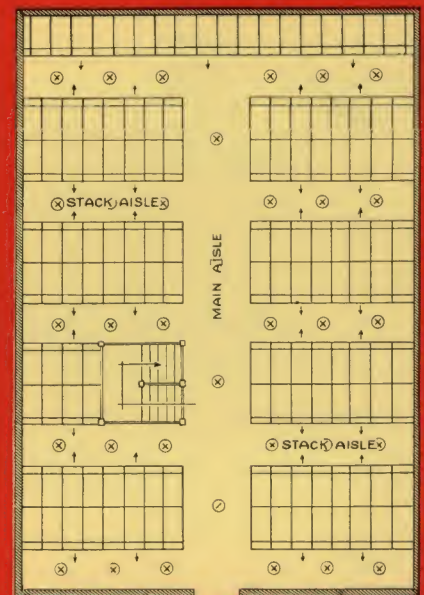


Figure B

The Compo filing idea was originally conceived to relieve the dire book accommodation problem confronting numerous libraries. True, some libraries solved the problem by additional buildings. This, however, was the exception rather than the rule. In most cases prohibitive building costs and physical circumstances precluded such a program. Books continued to pile up on top of stacks, on tables, on carts and on the floor. In many cases the overflow of books crowded out all reading room.

Then, along came Hamilton Compo and a new concept of book handling came into being. To understand what Compo does, bear in mind this one fact, twice as many books can be housed in a given area with Compo. As a result libraries, where the situation looked hopeless, now found themselves with ample space for all of the books in their catalogs, and in many cases had room to spare for future expansion. You can readily understand the sudden popularity of Compo Stacks.

This idea had far too universal an application to confine it to the library field alone. Ingenuity quickly discovered an adaptation wherever filing is required. Industry found it to be the perfect answer for a variety of uses; records, correspondence, small parts. Schools, hospitals and insurance firms soon visualized the advantages of the Compo principle in relation to their specific filing problems.

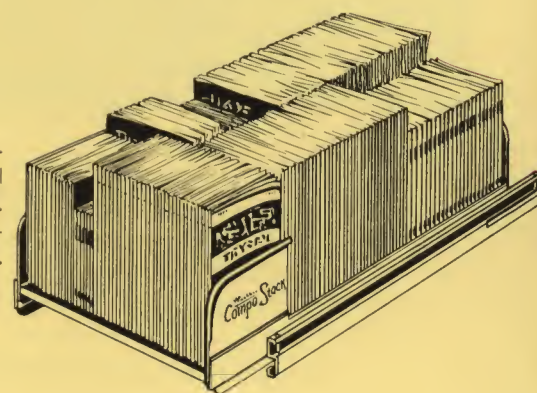
Inch for inch Compo provides more usable space than any other system known and is so flexible that its applications are practically limitless.

HORIZONTAL FILING

There are two practical methods of filing material in Hamilton Compo units. $9\frac{1}{2}$ "x $11\frac{1}{2}$ " file-folders may be filed in double rows the length of the Compo drawer, or they may be placed in three rows across the drawer.

VERTICAL FILING

The versatility of Compo filing is forcibly demonstrated here. By adding followers Compo Stacks are easily converted for vertical filing of correspondence, books, records and parts. $9\frac{1}{2}$ "x $11\frac{1}{2}$ " file folders, legal size



Sliding shelf showing typical vertical file arrangement. Front shelf and followers are optional.

documents and other storage materials may be filed in two parallel rows on the back part of the shelf as well as in the front compartment. Space between shelves is easily adjusted to compensate for various size material.

lineal filing inches versus floor space



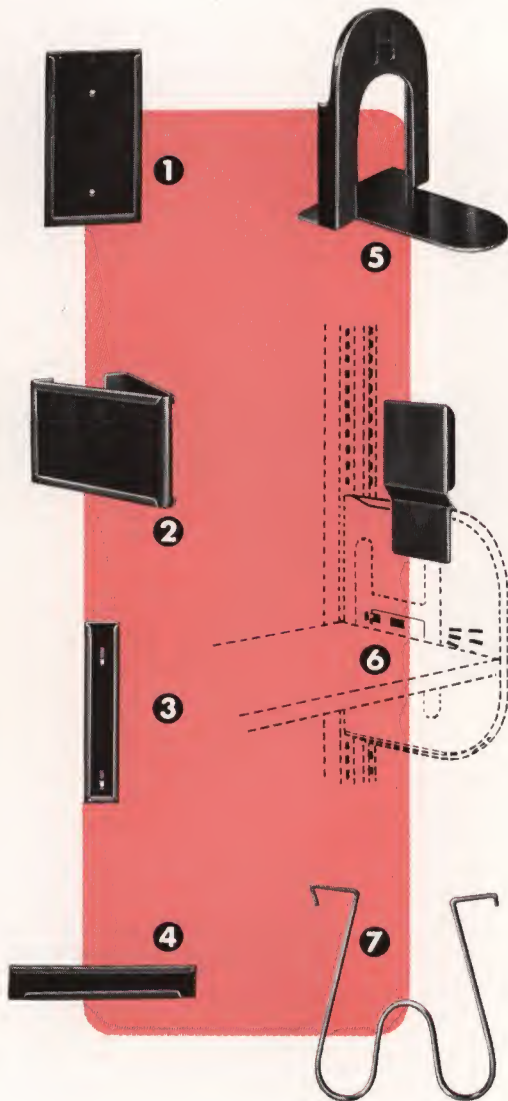
One tier of five drawers in Hamilton Compo design for horizontal filing, 57" high, requires 792 sq. in. of floor space. In this area Compo provides 360 filing inches or one lineal inch for only 2.70 sq. in. of floor space.

Two tiers of four drawer files, 57" high provide 208 lineal filing inches in 840 sq. in. of floor space or one lineal inch for every 4 sq. in. of floor space.



One tier of four drawers in Hamilton Compo design for vertical filing 57" high, requires 792 sq. in. of floor space and provides 288 lineal inches of filing or one lineal inch for every 2.75 sq. in. of floor space.





The Accessory equipment shown on this page is designed to further augment the convenience of Hamilton Library Stacks.

1. No. R-6023 Card frame for use on closed ends or columns of Hamilton Compo, Standard and Continuous Upright installations. Holds 3" x 5" card.
2. No. R-6024 V-shaped range indicator for all styles of Stacks. Attach to closed ends or end columns. Holds two 3" x 5" cards.
3. No. R-6068 Vertical label holder especially for use with Compo Stacks. Attaches to upright columns.
4. No. R-6029 Horizontal label holder for bottom shelves of Hamilton-Standard and Continuous Upright Stacks.
5. No. R-6069, 6" high and R-6069-1, 9" high Book Support. Made of heavy gauge metal with anti-slip base. Can be used in conjunction with all styles of stacks or for auxiliary use in other parts of the library.
6. No. R-6072 Shelf Support Extension. Snaps on to bracket type shelves to provide extra support for oversize books. Equally effective for use with Compo.
7. No. R-6027 Wire Book Support. For use with the solid plate shelves of Hamilton Standard and Continuous Upright Stacks. Snaps into shelf flanges. Made of heavy gauge spring steel.

SLIDING REFERENCE SHELF



Convenient for on the spot reference. Slides under regular shelf when not in use. No. R-6090, plain steel. No. R-6090-L, linoleum covered.



Snap-on Accessories, too, are available for use with the solid plate shelves of Hamilton Standard and Continuous Upright Stacks.

At the left is No. R-6025 subject finder which holds a 3" x 5" card on each side; Nos. R-6026 and R-6026-1

lock type book support 6" and 9" high respectively; No. 6028 adjustable shelf label holder.



No. R-6119 Carrell

A single-faced, portable, pedestal type Carrell with working surface, shelves and drawer with lock. This type of Carrell may easily be moved anywhere that is convenient. It is so designed that it can be used with Hamilton-Standard Continuous Upright and Compo Stacks.

No. R-6120 Carrell

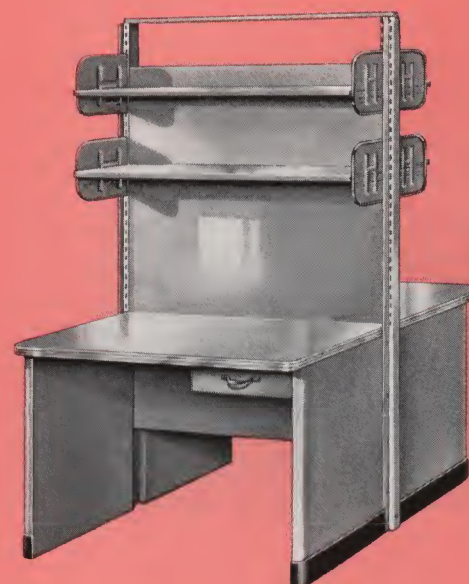
No. R-6120, shown below, is of the same design and construction as Carrell No. 6119 described above, except that it accommodates two people, one on each side. Working surface, drawer and shelves are provided for each user. Drawer No. R-6092 with lock is optional equipment.

No. R-6091 Single Faced

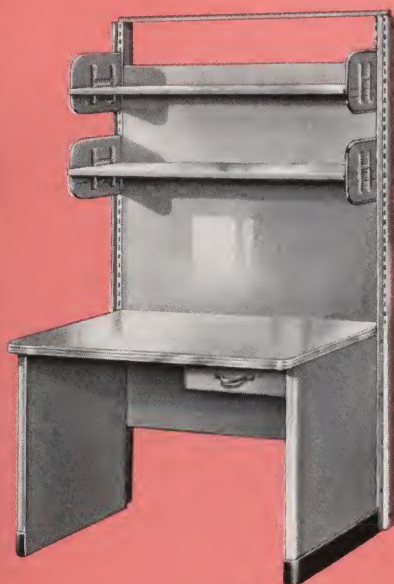
No. R-6091, bottom next page, will harmonize with all types of Hamilton Stacks. It is of partition type construction and may be incorporated in a stack range or installed separately. Regular stack uprights form the framework. Ideal for against the wall or multiple-unit row installation. Working surface, partition and shelves are attached as desired. Drawer No. R-6092 with lock is optional. Also available in double-faced construction.

TYPICAL STUDY CARRELL INSTALLATION

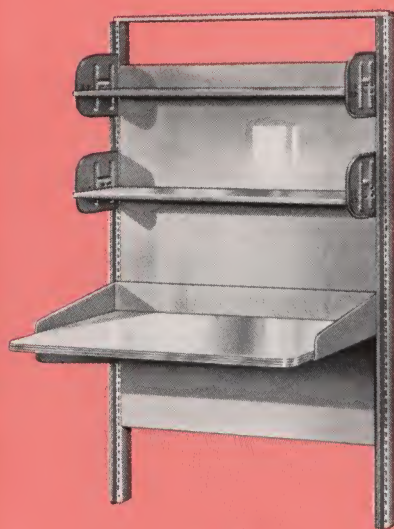
Study Carrells are always desirable and frequently essential in school library installations. They provide the necessary seclusion and quiet for concentrated research and study. Ample working surface, shelf and drawer space is provided to accommodate the user's material. Hamilton Carrells are available in a variety of styles and designs, and will match the Hamilton line of stack shelving — Standard, Continuous Upright and Compo. Carrells may be installed anywhere in the library where space permits, either singly or in rows. Areas near windows are preferred locations for Carrells.



No. R-6120 Double Faced



No. R-6119



No. R-6091

Specially designed stacks for safe and neat storing of newspapers and odd-sized material are a necessary adjunct to library equipment. Nor was this need overlooked in the Hamilton line. Newspaper stack design gives you a compartment consisting of 12 rows of extra strong, adjustable steel plate shelves, 18" or 22" deep and 1 fixed base shelf, 36" wide from center to center of uprights. This arrangement permits storing newspaper volumes, two high, in a flat position on each row of shelves. These out-size units will be found convenient for other odd-sized material, as well.

The same variety of attractive and durable hammered baked-on enamel finishes as supplied on all Hamilton steel stacks is available on these units.

DOUBLE FACED RANGES 7'3" HIGH

Initial Unit, 18" shelves R-6093

Initial Unit, 22" Shelves R-6094

Additional Unit, 18" Shelves R-6095

Additional Unit, 22" Shelves R-6096

SINGLE FACED RANGES 7'3" HIGH

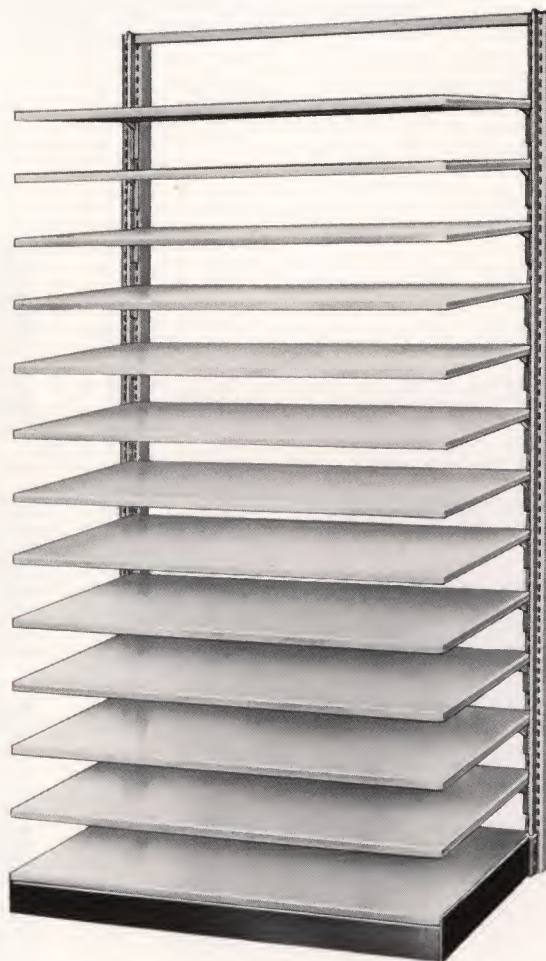
Initial Unit, 18" Shelves R-6097

Initial Unit, 22" Shelves R-6098

Additional Unit, 18" Shelves R-6099

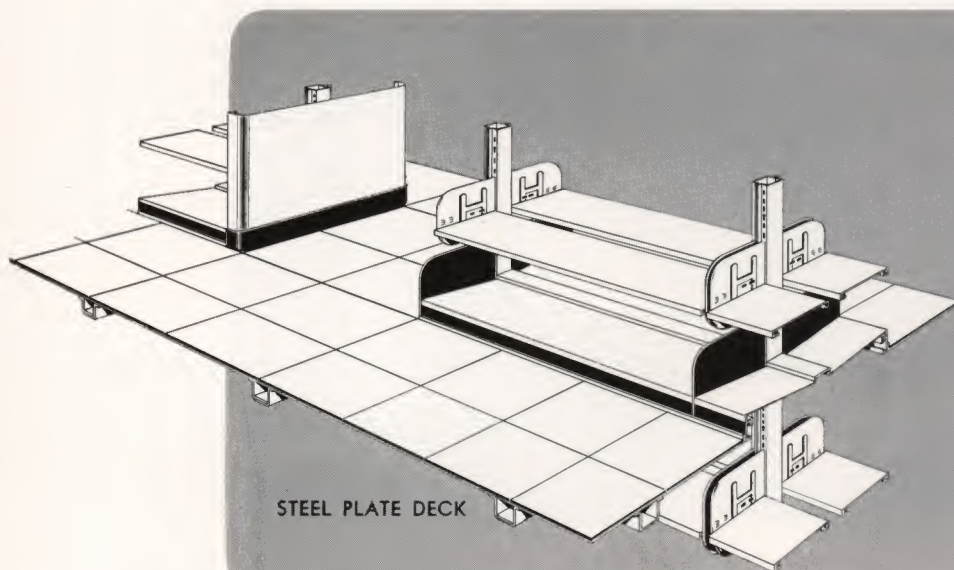
Additional Unit, 22" Shelves R-6100

HAMILTON 13-SHELF NEWSPAPER STACK



CONTINUOUS STEEL PLATE DECK is most easily installed in existing buildings. It provides a flush, durably finished, light reflecting ceiling and a quiet, resilient tile-covered floor. Concealed electrical work and ventilation can easily be incorporated.

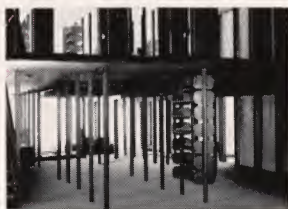
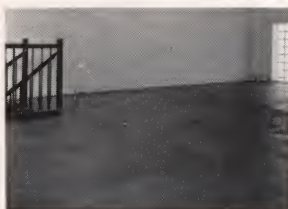
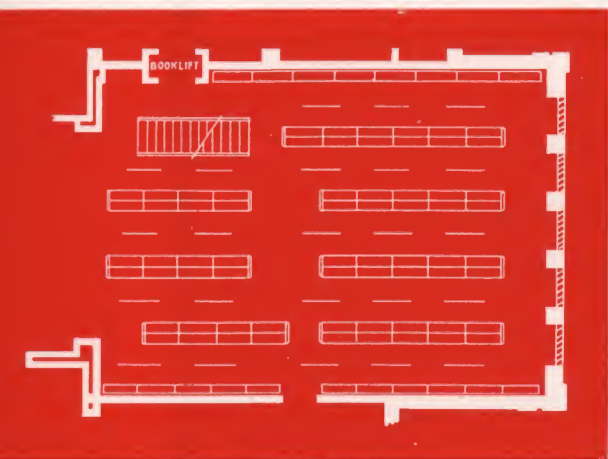
OPEN WELL STEEL PLATE DECK has same floor and ceiling construction as Continuous but with open wells for air circulation throughout stacks. Made in two styles: **PANEL** type with visible non-dust gathering supporting members, or **FLUSH AISLE CEILING** type with panels above aisles to conceal reinforcements.



CONTINUOUS STEEL PLATE DECK



OPEN WELL STEEL PLATE DECK



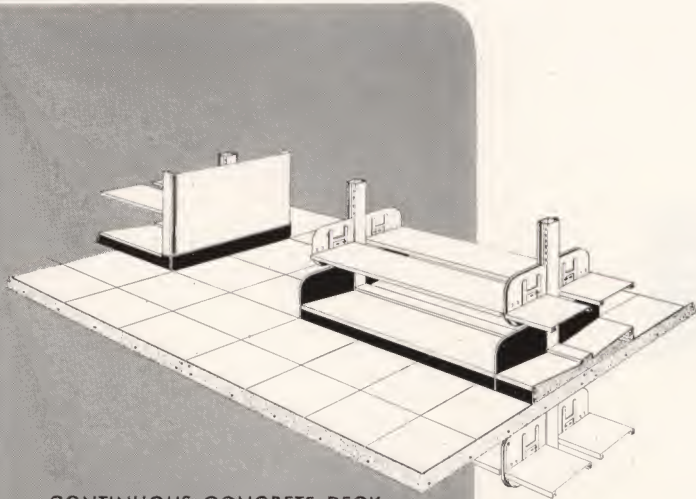
For the Public Library

Libraries differ greatly in their requirements. It is essential to consider the type of library you are planning. Wide aisles for browsing, for instance, are characteristic of public libraries, whereas college libraries are more concerned with study carrells.

At extreme left is the floor plan arrangement of a Hamilton public library installation. It shows bookstacks in a two tier arrangement, with book lift and stairway.

Immediately left is a pictorial progressive of the actual installation of this library. The first picture shows steel reinforcement for the deck. Next is the same view after pouring the concrete deck. The third illustration shows up-rights in place and bookstacks partially installed. And finally a picture of the completed job, ready for use.

CONCRETE DECK should be seriously considered for buildings that are under construction. It is the most economical type of decking available and can easily be installed with the construction job. Due to its weight and handling difficulties it is not recommended for existing buildings.



CONTINUOUS CONCRETE DECK

The material on this and the preceding page is your guide to modern deck construction. You see here brief descriptions of the principle methods of building decks, or floors for bookstacks two or more tiers high.

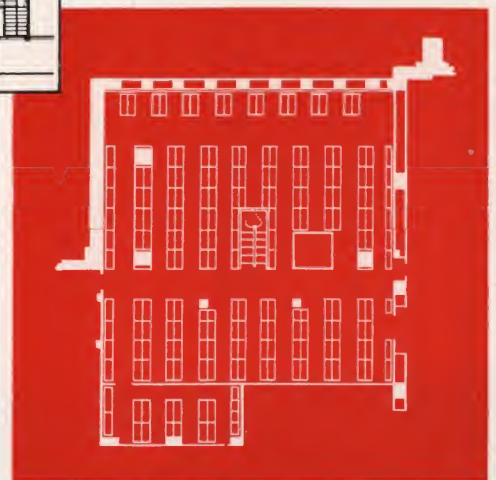
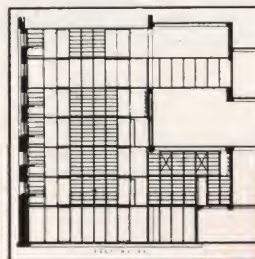
It is patently evident that multi-tier construction is most economical, and in many cases the only alternative. Every building contractor will assure you that building multiple floors is less costly than spreading one floor over a large area. Likewise, in adding to existing buildings, it may be impossible to expand horizontally due to lack of space. Adding floors to present structures may be the only choice. So we see that multi-tier construction is a vital consideration in library installation.

In these few general comments about multi-tier stacks you may find an advantageous application to your own building or remodeling program. If you desire more information than the limited descriptions on these pages you may want to contact your Hamilton representative. He has had a great deal of experience in library planning, and will gladly help you apply the advantages of Hamilton multi-tier stacks to your own problem.

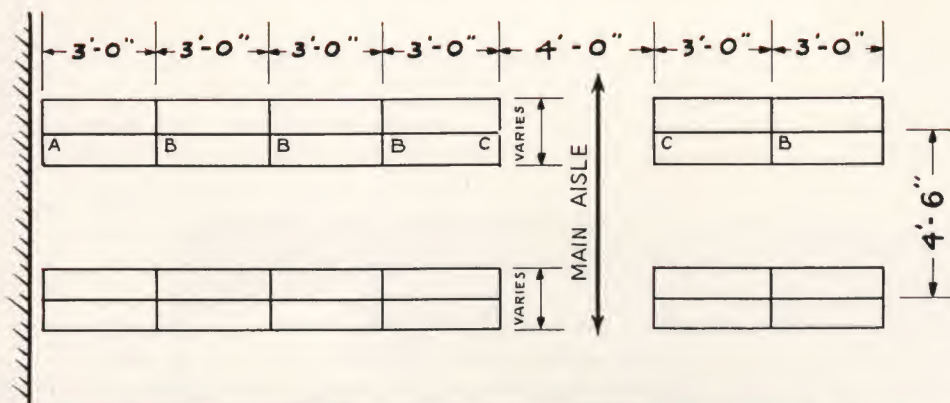
For the College Library

The illustration at the right is one of the hundreds of Hamilton plans and layouts which have resulted in actual installations. This particular plan is a typical example of how a seven tier or floor library is handled. Bookstack uprights carry the load even to supporting the roof. Note that the floor plan indicates the location of elevator, stairway, ventilation ducts and study carrells.

The arrangement of the seven tiers of stacks is shown in the detailed section view. Part of these are stripped tiers, which means that uprights are in place but shelves will not be installed until future expansion makes them necessary. This is far-sighted planning that effects substantial savings. It is perfectly safe with Hamilton stacks because the perfect fitting shelves may be added at any time.



PLAN OF TYPICAL STACK ARRANGEMENT



CAPACITY TABLE FOR SINGLE FACED CONVENTIONAL RANGES

Kind of Books	Recommended depth of shelves	Vols. per ft. of shelf	Vols. per lineal ft. Single-faced	Vols. per 3 ft. Single-faced Range
Law	8"	4	28	84
Bound periodicals	10"-12"	5	35	105
Public documents	8"	5	35	105
Medical	10"	5	35	105
Technical & Scientific	8"-10"	6	42	126
General Literature	8"	7	49	147
History	8"	7	49	147
Reference	8"-10"	7	49	147
Fiction	8"	8	56	168
Economics	8"	8	56	168
Circulation	8"	8	56	168
U. S. Patent—2 per yr., 144 vols.	8"		14	

The table at the left is a concise summary of most common books and recommended shelf depths for them.

STACK LOADS IN POUNDS

No. of Tiers	8" Shelving			10" Shelving		
	A	B	C	A	B	C
1	500	1000	500	600	1200	600
2	1470	2860	2130	1700	3320	2360
3	2430	4710	3730	2770	5380	4070
4	3400	6550	5310	3840	7430	5760
5	4340	8370	6870	4800	9470	7420
6	5280	10170	8400	5940	11490	9060
7	6210	11950	9910	6990	13500	10680
8	7140	13720	11400	8030	15500	12290
9	8060	15490	12870	9060	17480	13870
10	8970	17230	14320	10080	19450	15430
11	9880	18970	15760	11100	21410	16980
12	10800	20700	17200	12100	23400	18500

Unit Stack Weights of Conventional Shelving*

Table at left is calculated to give total weight of following basic data:

Books — 25 lbs. per cu. ft. of ranges.

Stack Construction — 8 lbs. per cu. ft. of ranges.

Steel Floor Framing — 4 lbs. per sq. ft. of gross deck area.

Deck Flooring — 3 in. reinforced concrete slab, 38 lbs. per sq. ft. gross area. With floor covering, add 3 lbs. per sq. ft. Live Loads — 100 lbs. per sq. ft. of aisle area to avoid vibration. Assume 40 lbs. per sq. ft. of aisle are for live load.

Reduce this figure 5% for each deck below the top deck.

* Compo — same unit stack weights apply.

HOW TO FIGURE STACK REQUIREMENTS

Here is a simplified procedure to help you plan bookstack layouts for your library. With this information you can quickly estimate your needs, or you may want to send the details to us and have our experienced engineers make recommendations and plans for you. There is no charge or obligation for this service.

Determine Number of Books

Determine the number of books you have. Classify them as law, bound periodicals, etc., (see chart on facing page). Add one-third to accommodate future expansion.

Example: A library remodeling its general literature department has 19,000 volumes. It will, therefore, plan for the 19,000 volumes plus one-third, or 6300 volumes, for a total of 25,300. If the rate of expansion is known to be greater, adjustment should be made accordingly.

Estimate Number of Stacks of Each Shelf Depth

8" shelves are generally recommended. 10" and 12" shelves are available for larger books. (See suggestions in table on facing page). Table also shows the capacity of standard, 7'6" high stacks with six adjustable shelves and one fixed base shelf.

Example: Using the figures from example above, we will need capacity for 25,300 volumes. Since all volumes are of the same classification 8" shelves will be used throughout. Capacity table shows that each three foot wide stack holds 147 books; 25,300 divided by 147 amounts to 172 single faced stack sections.

Layout Stacks on Floor Plan

Next we determine how 172 single faced or 86 equivalent double faced stacks will fit available floor space. Provide for three to five foot wide main aisles and two and one-half foot wide stack aisles. Ranges can be any length that is multiple of the shelf length, but not over thirty feet for convenient use.

Required floor space is easily computed after determining length of ranges and depth of shelves. A well area of $2\frac{1}{2}' \times 9'$ is needed for a straight run stair of 13 risers. Well length for return runs can be $7' \times 5'$ wide.

Example: Using the figures determined in the previous examples, let us assume that we are faced with the problem of fitting our 172 single faced stacks into a room $27' \times 36'$ feet. Allowing two walls for windows and doors, we can place 10 single faced stacks along each of two walls. 33 double faced stacks will go into the center space in three ranges of five compartments, one range of six compartments and three ranges of four compartments. This allows for a book lift, stair well and several study tables plus ample aisle space. Since this layout accommodates only one-half of our stack requirements, a second floor or deck with the same layout is needed.

Select Type of Deck Floor

See pages 16 and 17 for description of the various types of deck floors available. You have a choice of continuous steel deck, open well steel deck of panel or flush aisle ceiling type, or continuous concrete deck.

Determine Stack Load

To be sure that the foundation and floor of the building will carry the weight of the loaded stacks determine the stack load from the bottom table on page 18. This table is computed on the basis of using concrete deck which is the heaviest type. Weights shown also include stacks, books, live load and deck construction. Diagram at top of page 18 identifies the points (A) wall end support, (B) intermediate support, and (C) aisle end support. Loads for each of these points are shown in the table because each bear different loads.

Example: In our plan there are two tiers. The second line of the table shows that stack loads for 8" shelves at the various points are: (a), 1470 lbs.; (b), 2860 lbs.; (c), 2130 lbs.

PLANNING

LET US HELP YOU
WITH YOUR PLANS
AND LAYOUTS

The bookstacks shown in this catalog comprise the standard line of Hamilton library equipment. Sizes, catalog numbers, descriptions and estimating suggestions are included to give you the basic information to formulate your own plans and determine your requirements.

Frequently, however, our experienced engineers are better able to make space and money saving suggestions. They are ready to apply their know-how to your problem, whether you contemplate new equipment or only rearrangement of your present installation.

Remember, too, that Hamilton Stacks are adaptable to almost any filing situation. If you plan such a practical adaptation, or require custom built units, send your problem with the necessary data to us. We will gladly help you select the most appropriate type of equipment and plan its efficient layout for you. There is no obligation for this planning service.



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